Monitoring Data Record

Project Title: <u>R-2206B (NC 16 Bypass)</u> COE Action ID: <u>200431320</u>							
Stream Name: UT to Forney Creek (Site 10B) WQC Number: 3476							
City, County and other Location Information: Lincoln County, NC 16 Bypass							
(Sta. 159+00 LTL-)							
Date Construction Completed: 3-3-08 Monitoring Year: (2) of 5							
Ecoregion: 8 digit HUC unit 03050101							
USGS Quad Name and Coordinates:							
Rosgen Classification: <u>C5</u>							
Length of Project: 463' Urban or Rural: Rural Watershed Size:							
Monitoring DATA collected by: M. Green and J. Young Date: 3/6/09							
Applicant Information:							
Name: NCDOT – Roadside Environmental Unit							
Address: 1425 Rock Quarry Rd, Raleigh, NC 27610							
Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov							
Consultant Information:							
Name:							
Address:							
Telephone Number: Email address:							
Project Status:							
Permit States: The permittee shall perform the following components of Level I monitoring each year for the 5-year monitoring period: Reference photos; plant survival (i.e. identify specific problem areas (missing, stressed, damaged or dead plantings), estimated causes, and proposed/required remedial action);visual inspection of channel stability. Physical measurements of channel stability/morphology will be conducted during Years 1, 3, and 5. The permittee shall submit the monitoring reports to the USACE, Raleigh Regulatory Field Office Project Manager, within sixty days after completing the monitoring. If less than two bankfull events occur during the first 5 years, the permittee shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the five-year monitoring period, the USACE, in consultation with the resource agencies, may determine that further monitoring is not required. It is suggested that all bankfull occurrences be monitored and reported through the required monitoring period. The permittee shall perform and submit photo documentation twice each year (summer and winter) for the 5-year monitoring period, and for any subsequently required monitoring period.							
Section 1. <u>PHOTO REFERENCE SITES</u> (Monitoring at all levels must complete this section)							
Total number of reference photo locations at this site: 10 photos were taken from 5 photo							
point locations looking up and down stream.							
Dates reference photos have been taken at this site: 3-3-08, 9/3/08, 3/6/09							
Individual from whom additional photos can be obtained (name, address, phone):							
Other Information relative to site photo reference: A site map with photo point locations is							

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL Attach plan sheet indicating reference photos.							
Identify specific problem areas (missing, stressed, damaged or dead plantings):							
Estimated causes, and proposed/required remedial action: The area where repairs were made to the stream at Sta. 159+40 in October 2008 was replanted with live stakes and bareroot seedlings in January 2009.							
ADDITIONAL COMMENTS: Streambank reforestation consisted of black willow and silky dogwood live stakes planted along the streambank. The floodplain was planted with overcup oak, sycamore, green ash, and river birch bareroot seedlings. Other vegetation noted included fennel, <i>Juncus</i> sp., goldenrod, tag alder, lespedeza, red maple, silverthorn, <i>Scirpus</i> sp., briars, and various grasses.							

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel stability/morphology will not be required.</u> Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

UT to Forney Creek is in stable condition for the Year 2 Winter evaluation. There were no problem areas noted and
the repairs that were made to the stream at Sta. 159+40 in October 2008 are stable. A bankfull event has occurred
since the last monitoring evaluation. NCDOT will continue to monitor this stream.

Date	Station	Station	Station	Station	Station
	Number	Number	Number	Number	Number
Structure					
Type					
Is water					
piping					
through or					
around					
structure?					
Head cut or					
down cut					
present?					
Bank or scour					
erosion					
present?					
Other					
problems					
noted?					

UT Forney Creek



Photo Point #1 (Upstream)



Photo Point #2 (Upstream)



Photo Point #3 (Upstream)

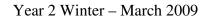




Photo Point #1 (Downstream)



Photo Point #2 (Downstream)



Photo Point #3 (Downstream)

UT Forney Creek



Photo Point #4 (Upstream)



Photo Point #5 (Upstream)



Photo Point #4 (Downstream)



Photo Point #5 (Downstream)

